air barrier **a b a a** association of america



DENVER, COLORADO MAY 6TH & 7TH

AIA Continuing Education Provider



become part of the COMMUNITY

ABAA members get their first month of R-Club free/\$50 off annual.

Use discount code: ABAARCLUB,





PERKS

PEER FORUM

CHARII'

NEWSLETTER

BENEFITS

DIRECTORY

SIGN UP TODAY!

Platinum Sponsor



Conference Sponsors









Table of Contents

3	Conference Sponsors
5	Who Is ABAA?
6	ABAA Air Barrier QAP Award
8	ABAA Quality Assurance Program (QAP)
9	General Information
10	Convention Map
12	AIA Continuing Education Provider
13	Whole Building Airtightness Program

Agenda Wednesday - May 7TH 20 Agenda - Installer & Auditor Training 22 Agenda - ABAA Committee Meetings 23 Track 1 - Tuesday, May 6TH 24 Track 2 - Tuesday, May 6TH 28 Foundational Track - Tuesday, May 6TH 32 36 General Education - Wednesday, May 7TH

Agenda Tuesday - May 6TH

14

Information

HYATT REGENCY DENVER

COLORADO CONVENTION CENTER

May 6-7, 2025 at the Hyatt Regency Denver (650 15th Street, Denver, CO 80202)

N THE AREA

Restaurants

Former Saint Craft Kitchen and Taps - Onsite Peaks - Onsite Tuscany - 5 min Panzano - 10 min

Outdoor Activities

Denver Art Museum - 0.9 MI Elitch Gardens Theme Park - 1.8 MI Denver Zoo - 2.8 MI Colorado Ski Resorts - 68.4 MI

air barrier abaa association of america

13



1. Scan the QR code

2. Stop by show registration booth.

Who is ABAA?

We Are You, The Members

The Air Barrier Association of America (ABAA) is a national, not-for-profit trade association that consists of a wide cross section of stakeholders in the building enclosure industry.

Our membership include manufacturers, architects, engineers, trade contractors, researchers, testing & audit agencies, consultants and building owners.

ABAA is the national voice of the air barrier industry and has raised the level of quality in the industry through a Quality Assurance Program and offers premier training, certification, product evaluations, contractor accreditation and site quality control audits.

ABAA's mission is to promote the use and benefits of air barrier systems, educate the public about air barrier systems and develop a professional air barrier specialty trade and industry dedicated to the installation of effective air barrier systems in buildings on a nationwide scale.

Why Join ABAA?

ABAA Member Benefits

The Air Barrier Association of America (ABAA) is a leading trade association in the building enclosure industry, offering a corporate membership model that benefits all employees of member companies. Whether you have 5 or 50 individuals, everyone gains access to valuable resources and opportunities. This approach is often more cost-effective than individual memberships from other associations, allowing your entire team to enjoy enhanced training, networking, and industry insights under one membership.

TECHNICAL & INSTALLATION RESOURCES:

Gain expert guidance, industry-vetted details, and on-demand support to ensure proper installation, code compliance, and reduced jobsite liability.

EDUCATION & CERTIFICATION:

Enjoy exclusive member discounts on training, certifications, and our Annual National Conference, plus personalized guidance on best practices for your role.

BUSINESS & PROFESSIONAL GROWTH:

Free listing and promotional tools to elevate your business, speaking opportunities, and increased visibility at events, while accessing tools to elevate your brand.

COMMUNITY & INDUSTRY INFLUENCE:

Connect with a national network of experts, join committees shaping industry change, and stay informed on emerging codes, challenges, and innovations.

....AND MUCH MORE!

Become part of a thriving professional community dedicated to excellence in air barrier systems.

READY TO JOIN? Apply online at: www.airbarrier.org









air barrier **abaa** association of america

ASSURANCE PROGRAM EXCELLENCE

ABAA QAP AWARD

This award is presented to ABAA Accredited Contractors who has successfully completed a minimum of five site audits and been assessed a total of zero demerit points, both to the installer and contractor.

- 1. American Commercial Insulation, LLC d/b/a Davenport Commercial
- 2. ANI d/b/a Division Seven, Inc.
- **3.** BARCON Ventures, LLC
- 4. Best Wash, Inc.
- 5. Buckeye Construction & Restoration
- 6. Builder Services Group d/b/a RG Insulation
- **7.** C.M. Morris Group, Inc.
- **8.** Dominion Waterproofing & Construction Services, Inc.
- **9.** EBS Exterior Building Services, Inc.
- **10.** EDA Contractors, Inc.
- **11.** HRGM Corporation
- **12.** Metro Waterproofing, Inc.
- **13.** Sealant Technology Services
- **14.** Summit Insulation & Contracting
- **15.** Spray Foam Technologies of KY
- **16.** Standard Waterproofing
- **17.** Stony Creek Services, Inc.
- **18.** SW Drywall, LLC

By The Numbers

Building Quality, Reducing Risk, and Mitigating Moisture

103+ Million

Sq. Ft. of QAP Audited Air Barrier Installation





26,000+

QAP Specified Projects



2,808

Certified & Registered Installers



7,700+

Audits



121 Certified Products

General Information and Reminders

CONFERENCE MEDIA PARTNERS



INDUSTRY PARTNERS







Name Badges

Don't forget to wear your ABAA Conference issued name badge. All attendees are required to have a name badge to attend this conference. Please use your name badge to gain access to all meals, activities, keynotes and sessions.



Photography

Photos will be taken throughout this event. ABAA reserves the right to use these photos for the promotion of future ABAA events and/or social media.



Get Social

Stay connected to the latest industry innovations and events. Find us on Facebook, Twitter & LinkedIn. Also make your way to our website or scan the QR code and sign up for our popular and free industry webinars and newsletter.

Convention Map Exhibitor Booths

1	3M	
2	Exterior Design Institute, Inc	
3	Intertek	
4	Soprema	
5	DOW	
6	GCP	
7	Prosoco	
8	Kaneka	
9	Sto Corp.	
10	Maxell	
11	York Flashing	
12	W.R. Meadows	
13	Rmax Sika	
14	Georgia Pacific	
15	RIB	
16	Retrotec	
17	Siplast	
18	Polyglass	
19	Sentry Building Innovations	
20	Elements Materials Technology	
21	Vaproshield	
22	Sika Emseal	
23	Henry	
24	Protecto Wrap	



10 Feet





25	Master Wall Inc.
26	TRUFAST
27	Tremco
28	Terracon
29	MIS
30	Dörken
31	DuPont
32	Momentive Performance Materials
33	IMETCO
34	ABAA Networking Booth

35	ABAA Contractors
36	Pecora Corporation
37	
38	
39	
40	
41	Roofers Coffee Shop
42	
43	
44	

AIA Continuing Education Provider

Continuing Educational Credits

Educational presentations are registered to provide learning units and HSW credits. You will receive one credit per one hour of the presentations you attend.

Attend all two days and be eligible for 11 AIA LU's.



Track Concentrations

To ensure you get the most out of the conference, we have created three tracks and color-coded these tracks throughout this booklet. Please make a note of the color below to know which sessions will be most applicable to you. Attendees are not bound by specific tracks and can attend any presentation they are interested in.







Whole Building Airtightness Program Is Here!

The purpose of the ABAA Blower Door Technician Training Program is to educate both entry-level and more experienced blower door technicians on the planning, preparation, and execution of airtightness testing for commercial and large buildings in conformance with industry standard test methods.

The training aims to equip blower door technicians with the knowledge and skills necessary to appropriately evaluate, prepare, test, analyze, and report on a building's airtightness performance. The ABAA Blower Door Technician Training Program is a 40-hour training program delivered over 5 days by subject matter experts retained by ABAA who are guided by detailed lesson plans. In addition to receiving instruction from experienced experts, the trainees will also have the opportunity to plan and carry out simulated building airtightness tests on physical mock-ups during the training program.



5 DAYS OF INTENSIVE TRAINING

Register Today





Whole Building Airtightness Program™

Agenda Tuesday May 6TH

07:00 AM 08:00 AM	Registration & Light Breakfast Exhibit Hall is Open
08:00 AM 08:30 AM	Opening Remarks: ABAA Initiatives, Goals & Successes
TRACK 1 / Centennial E-H	
08:45 AM 09:45 AM	Future-Proofing Buildings with Whole Building AWBs Benjamin A. Meyer & Luke Geoffrion
09:45 AM 10:00 AM	BREAK Exhibit Hall is Open
10:00 AM 11:00 AM	Case Study: Navigating the Complexities of Expansion Joint System Installation for Stadium Construction Jack Belanger
11:00 AM 11:15 AM	BREAK Exhibit Hall is Open
11:15 AM 12:15 PM	Introduction to Delegated Design for Building Enclosure Systems Rebecca Rose Booth & Andrea Baird



BUILDING ENCLOSURE CONFERENCE

12:15 PM 01:15 PM Lunch | Exhibit Hall is Open

- 01:15 PM Air Barrier Embodied Carbon: A Critical Review
- **02:15 PM** Dr. Randy Van Straaten & Dr. Adam Broderick
- 02:15 PM 02:30 PM BREAK | Exhibit Hall is Open
- 02:30 PMGlass-Mat Gypsum Sheathing: Evolution, Advantages, and Effective Strategies for Air Barrier Applications03:30 PMMatthew Hollingsworth
- 03:30 PM 03:45 PM BREAK | Exhibit Hall is Open
- 03:45 PM Meeting Today's Construction Challenges with Prefabrication
- 04:45 PM David Young & Rob Zdenek
- 06:00 PM 09:00 PM BOARD MEET & GREET: The Peaks Lounge - 27th Floor of the Hyatt Regency

Agenda Tuesday May 6TH

TRACK 2 / Centennial A-B		
08:45 AM 09:45 AM	Prefabricated Exterior Wall Assemblies: Herding Cats in Hard Hats Kayla Maines, Trevor Brown & Colton Howard	
09:45 AM 10:00 AM	BREAK Exhibit Hall is Open	
10:00 AM 11:00 AM	Navigating Below-Grade Waterproofing System Installation in New Construction Art Tyson	
11:00 AM 11:15 AM	BREAK Exhibit Hall is Open	
11:15 AM 12:15 PM	Sink or Swim: Effective Natatorium Envelope Design Thru Case Study Q. Jonnie Hasan	
12:15 PM 01:15 PM	Lunch Exhibit Hall is Open	
01:15 PM 02:15 PM	Current and Future Energy Codes- Impacts on the Design, Construction, and Testing Lee Durston	of Air Barriers



BUILDING ENCLOSURE CONFERENCE

06:00 PM 09:00 PM	BOARD MEET & GREET: The Peaks Lounge - 27th Floor of the Hyatt Regency
03:45 PM 04:45 PM	Saddle Up! Integrating Control Layers at Parapet to Rise Walls Conditions Michael Nagle & Jake Morrision
03:30 PM 03:45 PM	BREAK Exhibit Hall is Open
02:30 PM 03:30 PM	Leveraging the UK's Mandatory Air Tightness Testing: Insights and Data-Driven Strategies for Enhanced Building Performance Barry Cope
02:15 PM 02:30 PM	BREAK Exhibit Hall is Open

Agenda Tuesday May 6TH

Foundational Track – Centennial D

08:45 AM	Building Science Principles in Actions: The Dews and the Don'ts
09:45 AM	Caroline Klatman & Alex Kosis
09:45 AM 10:00 AM	BREAK Exhibit Hall is Open
10:00 AM	Air Barrier Fundamentals – The Why and What of Building Airtightness
11:00 AM	Ryan Dalgleish
11:00 AM 11:15 AM	BREAK Exhibit Hall is Open
11:15 AM	Moisture Defects in Buildings – A Sick Building Epidemic
12:15 PM	Cheryl Ciecko
12:15 PM 01:15 PM	Lunch Exhibit Hall is Open
01:15 PM	Basic Critical AVB Detailing
02:15 PM	Corey Zussman



BUILDING ENCLOSURE CONFERENCE

06:00 PM 09:00 PM	BOARD MEET & GREET: The Peaks Lounge - 27th Floor of the Hyatt Regency
03:45 PM 04:45 PM	Building Enclosure Commissioning (BECx): Fundamentals, Standards, and Essential Practices Alessandra Valerio
03:30 PM 03:45 PM	BREAK Exhibit Hall is Open
02:30 PM 03:30 PM	Air Barrier Installation and Quality Control Fundamentals Melissa Payne
02:15 PM 02:30 PM	BREAK Exhibit Hall is Open

Agenda Wednesday May 7TH Centennial E-H

07:30 AM 08:30 AM	Rise & Shine Hot Breakfast Networking Event Exhibit Hall is Open
08:30 AM 09:30 AM	KEYNOTE: Will Construction Thrive or Dive Beyond 2025? Kenneth D. Simonson
09:30 AM 10:00 AM	BREAK Exhibit Hall is Open
10:00 AM 11:00 AM	ABAA Contractors Committee – Submittal Risks and Responsibilities – Panel Discussion Michael Repka, Matt Giambrone, Paul Grahovac & Corey Zussman
11:00 AM 11:15 AM	BREAK Exhibit Hall is Open
11:15 AM 12:00 PM	ABAA Updates & ABAA Awards Ceremony
12:00 PM 01:15 PM	Lunch Exhibit Hall is Open



BUILDING ENCLOSURE CONFERENCE

01:15 PM	Unlocking the Advantages of QAP
02:15 PM	Andrea Wagner Watts, Benjamin A. Meyer, Nicholas K. Alexander & Caitlin Clark
02:15 PM 02:45 PM	BREAK Exhibit Hall is Open
02:45 PM	Preserving an Icon while Re-envisioning the Enclosure of the United States Air Force Academy Chapel
03:45 PM	Bryan Rouse & Emily Ryba
03:45 PM 04:00 PM	BREAK Exhibit Hall is Open
04:00 PM	Lessons Learned – Trades That Need To Include an AVB Discussion in their Specification and Preinstallation Meetings
05:00 PM	Corey Zussman

Agenda

FROM

Installer & Auditor Training

MAY 6-8 3 DAYS

COURSE LENGTH

abaa EDUCATION

08:00 AM	Self Adhered and Fluid Applied Training	ROOM
05:00 PM	Instructor - Matthew Ritchie	Quartz A/B
08:00 AM	Spray Polyurethane Foam Training	ROOM
05:00 PM	Instructor - Tom Harris	Granite B/C
08:00 AM	Field Auditor Training	ROOM
05:00 PM	Instructor - Timothy A. Mills	Granite A

(May 8 is a half-day of offsite hands-

on training for Installers & Auditors).

Agenda

Committee Meetings

Thursday, May 8[™]

Light breakfast, lunch and coffee breaks are being provided on the third day of the conference (committee meeting day).

08:00 AM	Research Committee Meeting	ROOM
09:00 AM	Andrew Dunlap & Sarah Flock	Quartz A/B
09:10 AM	Technical Committee Combined with Research Committee Meeting	ROOM
10:00 AM	Andrea Wagner Watts, Cody Shelner, Andrew Dunlap & Sarah Flock	Quartz A/B
10:00 AM	Technical Committee Meeting	ROOM
11:00 AM	Andrea Wagner Watts & Cody Shelner	Quartz A/B
08:30 AM	QAP Committee Meeting	ROOM
09:45 AM	Elizabeth V. Rodenkirch	Granite B/C
10:00 AM	Contractors Committee Meeting	ROOM
11:00 AM	Matthew Giambrone	Granite B/C
11:15 AM 12:15 PM (WORKING LUNCH)	Education and Training Committee Meeting Matthew Hollingsworth & David Holtzclaw	ROOM Granite B/C
12:30 PM	Marketing Committee Meeting	ROOM
01:30 PM	Matt Nelson & Craig Wetmore	Granite B/C

air barrier

abaa

association of america

Track 1 | Tuesday, May 6[™]

08:45 AM - 09:45 AM Centennial E-H

Future-Proofing Buildings with Whole Building AWBs



Benjamin A. Meyer, AIA, LEED AP Luke Geoffrion, Ph.D SIPLAST DALLAS, TX



As climate change drives increasingly severe storms, building resilience is critical. How do we ensure buildings withstand these extremes? A robust whole-building air barrier assembly is key, offering a resilient shield against environmental stresses. This presentation will guide you in designing and implementing a high-performance building envelope to manage climate impacts effectively.

The American Institute of Architects (AIA) defines resilience as mitigating risks from hazards, shocks, and stresses while adapting to evolving conditions. But how does this apply to building envelope design? We'll explore how resilience is integrated through strategies based on current and future codes, comparing past standards to anticipated advancements. This focus on code evolution and specification improvements highlights best practices for adaptable, durable construction.

The presentation examines various roof and wall assemblies, analyzing performance through lab tests and real-world exposure. Additionally, this panel will address essential quality assurance protocols, including building enclosure commissioning, the Air Barrier Association of America (ABAA) Quality Assurance Program, and Whole Building Airtightness Testing...

Scan QR code for complete description, learning objectives and presenter bios.

10:00 AM - 11:00 AM Centennial E-H

Case Study: Navigating the Complexities of Expansion Joint System Installation for Stadium Construction



Jack Belanger, VP. MTN INC. DENVER. CO



The installation of expansion joint systems in stadium construction presents unique challenges due to the structural demands and operational requirements of these large-scale venues. This presentation will explore the technical intricacies associated with planning, coordinating, and executing expansion joint system installations with particular emphasis on the critical role of effective interfacing with various substrates and the extensive logistical coordination required for a seamless, water-tight installation.

Key discussion points will include the process of ensuring proper preparation and alignment with various substrates, which are often subject to irregularities and environmental conditions that could impact the performance and longevity of the joint systems. This presentation will reference a confidential new NFL stadium on the East Coast and analyze the importance of pre-installation assessment, surface preparation, and substrate compatibility in addressing and/or minimizing issues that could lead to system failure or compromised system integrity.

Track 1 | Tuesday, May 6TH

11:15 AM - 12:15 PM Centennial E-H

Introduction to Delegated Design for Building Enclosure Systems



Rebecca Rose Booth, NCARB, CDT Andrea Baird, NCARB, P.E., CCCA,

LEED AP BD+C, BECXP, CXA+BE

RATHS, RATHS & JOHNSTON, INC. CHICAGO, IL



Delegating the design of portions or even the entirety of the building enclosure to specialty contractors is a growing trend. This presentation will introduce the delegated design process and include a combination of research and professional experience to assist participants with understanding and navigating the process. Topics will include the potential advantages for using delegated design, common problems associated with the process, and inconsistent policies and requirements in varying jurisdictions. Considerations will be presented for how project participants can take full advantage of the benefits of delegated design while minimizing risk.

This presentation will also outline strategies for successfully implementing delegated designs within both traditional and modern project delivery methods. With building enclosure commissioning becoming more prevalent, early project involvement of building enclosure consultants and BECx Providers can provide value and additional quality assurance for the project, related to delegated design.

Scan QR code for complete description, learning objectives and presenter bios.

01:15 PM - 02:15 PM Centennial E-H

Air Barrier Embodied Carbon: A Critical Review



Dr. Randy Van Straaten, *Ph.D., P.Eng.* BUILDING ENCLOSURE LABS INC. LONDON, ON

Dr. Adam Broderick, Ph.D. DUPONT MIDLAND, MI



The session will start with a review of embodied carbon impacts applied to air barriers. This will include a comparison of published air barrier embodied carbon values, varying assessment methodologies, and their limitations. A recommended approach of evaluating embodied carbon impacts based on clear field and linear/point impacts similar to modern thermal performance analysis will be presented. The impacts of this approach will be illustrated using example building envelope assemblies. A number of common project air barrier considerations will be discussed including: the use of membranes under exterior spray foam applications, the use of liquid applied air barriers on masonry when applying interior fibrous insulation, and the use of loose sheet vs liquid applied or self-adhered air barriers.

This session will be of interest to a range of participants: manufacturer's will be interested in the review of environmental product declarations (EPDs) and how it may affect their systems; professionals will be interested in the insights and approaches offered and application to their practices in selecting systems and reporting embodied carbon impacts...

Track 1 | Tuesday, May 6TH

02:30 PM - 03:30 PM Centennial E-H

Glass-Mat Gypsum Sheathing: Evolution, Advantages, and Effective Strategies for Air Barrier Applications



Matthew Hollingsworth, CDT, Level 1 Thermographer GEORGIA-PACIFIC BUILDING PRODUCTS, LLC ROCKY RIVER, OH



03:45 PM - 04:45 PM Centennial E-H

Meeting Today's Construction Challenges with Prefabrication



David Young, AIA, NCARB, LEED AP, BECXP, CXA+BE BPL ENCLOSURE ARVADA, CO

Robert Zdenek MORTENSON MINNEAPOLIS, MN



This presentation explores the evolution and benefits of glass-mat gypsum sheathing as a substrate for air barriers. It will discuss the transformation from paper-faced to glass-mat sheathing, emphasizing advantages of glass-mat sheathing such as noncombustibility, air barrier properties, mold and fire resistance, and integration system.

We will examine the manufacturing process of glass-mat sheathing, comparing material sourcing, process, and outline ASTM standards C1177 and C1278 Installation practices are vital for optimal performance. This presentation will cover best practices for handling and storing materials on-site, preconstruction meetings, and installation guidelines as per GA-253 and ASTM C1280. Key considerations include fastener spacing, maintaining proper distance from grade and cementitious materials, fire-rated assemblies, repairing damaged to sheathing, and panelization...

Scan QR code for complete description, learning objectives and presenter bios.

Prefabrication is believed by many to be the future of construction. It allows for more efficient use of the dwindling supply of skilled labor, tighter quality controls, and better conditions for assembly of complex building systems. BPL Enclosure and Mortenson will present a case study demonstrating how panelization and prefabrication of the building enclosure can meet the challenges of today's construction environment.

The presentation will discuss the two main types of prefabrication used in commercial construction today: modular and panelized construction. Review design and construction phase differences between conventional and panelized construction. Review the design and construction phase advantages and disadvantages of panelized construction. Present a case study of a Denver area building where the levels above the podium were constructed entirely of prefabricated wall and floor panels where the exterior wall panels were delivered to the site with the exterior cladding materials in place and fully glazed. The case study will focus on the building enclosure and present how disadvantages of panelized construction were overcome and unanticipated conditions addressed throughout the project...

Enhance your credibility Consult with more clients Stand out from your peers

Become a Certified Air Barrier Specialist Today!



Registration and exams are available OnDemand 24/7. Visit: airbarrier.org/CABS

air barrier **abaa** association of america

Track 2 | Tuesday, May 6TH

08:45 AM - 09:45 AM Centennial A-B

Prefabricated Exterior Wall Assemblies: Herding Cats in Hard Hats



Kayla Maines, AIA TERRACON / AUSTIN, TX

Trevor Brown JE DUNN / KANSAS CITY, MO

Colton Howard, *B.B.A.* TERRACON / AUSTIN, TX



Prefabrication of exterior wall assemblies has been explored since the 1920s and 1930s, so the concept of their use is nothing new to the built environment. However, consideration of the effects on the air, water, and thermal boundaries of buildings are the concerns of the construction industry for the 21st century. No matter if the wall assembly is constructed in the field or in a shop, it must have continuity in their air, water, and thermal barriers. Prefabricated exterior wall assemblies are designed and constructed to meet these requirements. In this presentation, our goal will be to introduce different perspectives on the use of prefabricated exterior wall assemblies. One is the General Contractor's experience with prefabricated exterior wall assemblies and the delegated design process. The other is the experience of the building enclosure consultant reviewing the design and observing the fabrication and erection of these wall systems. Case studies will be reviewed with respect to code and/or industry association inspection requirements, design and construction reviews, and lessons learned in the coordination of these assemblies with other trades. There will be three to four presenters. Colton Howard with Terracon will assist Kayla Maines in the building enclosure consultant perspective. We plan to reach out to a prefabrication manufacturer/fabricator to gain their perspective.

Scan QR code for complete description, learning objectives and presenter bios.—

10:00 AM - 11:00 AM Centennial A-B Navigating Below-Grade Waterproofing System Installation in New Construction



Art Tyson MTN INC. DENVER, CO



Below-grade waterproofing in new construction is a critical yet intricate aspect of building design, essential for ensuring structural integrity and long-term durability. Key topics will include an analysis of why waterproofing is essential for below-grade structures, exploring how moisture intrusion impacts building longevity, air quality, and foundational stability. Attendees will be introduced to general waterproofing methods and materials, gaining insights into the practical applications, benefits, and limitations of systems including sheet membranes, fluid-applied membranes, and bentonite-based technologies.

This presentation will address potential complexities involved in installing below-grade waterproofing systems, including specific pre-application considerations on effective interfacing to different horizontal and vertical substrate types, and coordination necessary between trades for assuring a successful installation...



Track 2 | Tuesday, May 6TH

11:15 AM - 12:15 PM Centennial A-B

Sink or Swim: Effective Natatorium Envelope Design Thru Case Study



NORCROSS, GA

Q. Jonnie Hasan, M.Eng, P.E. BECxP, CxA+BE IMETCO



Participants will develop a comprehensive understanding of the potential risks involved in designing roof and wall assemblies over pools and other corrosive environments. The session will cover effective design strategies to mitigate moisture damage by managing air, temperature, and vapor control. Key roof assembly elements—such as metal decking, fasteners, air/vapor barriers, and insulation—will be discussed in detail. Finally, these principles will be applied in a case study, covering the full project lifecycle from concept and design to application, inspections, and handover.

Scan QR code for complete description, learning objectives and presenter bios.—

01:15 PM - 02:15 PM Centennial A-B

Current and Future Energy Codes- Impacts on the Design, Construction, and Testing of Air Barriers



Lee Durston, Vice President BPL ENCLOSURE ATLANTA, GA



Over the past decade, energy codes have brought several changes with respect to improving the performance of the building enclosure both in design and construction. Most notable is the increasing importance placed on air-leakage through the enclosure and how this often-unknown value affects many of the energy efficiency metrics that define the performance of the building. In North America, there are currently multiple jurisdictions requiring Whole Building Air Leakage Testing (WBALT) as a code requirement. The most recent energy code to be adopted in many jurisdictions is ASHRAE 90.1-2019 or IECC 2021. These codes will either require WBALT or an increased presence of an air barrier consultant to review and document the air barrier from design through construction.

While the requirements of the new energy codes are predicted to achieve energy savings, there are many questions to be answered. Through a review of historical advancements in air barrier requirements this presentation will provide lessons learned approach of what is to come as various jurisdictions adopt the ASHRAE 90.1 -2019 and IECC 2021 Energy Codes.

Track 2 | Tuesday, May 6TH

02:30 PM - 03:30 PM Centennial A-B

Leveraging the UK's Mandatory Air Tightness Testing: Insights and Data-Driven Strategies for Enhanced Building Performance



Barry Cope, AMIOA, ACABE, DipIOA ATTMA

LOUDWATER, BUCKINGHAMSHIRE, UK



The United Kingdom has pioneered the implementation of mandatory air tightness testing, establishing a robust framework that combines consistent regulations, agreed-upon standards, and mandatory energy modelling. Central to this framework is the Air Tightness Testing & Measurement Association's (ATTMA) lodgement system, which has recorded over 1.5 million lodgements and amassed more than 1 billion data points. This wealth of data has been instrumental in influencing government policies and driving improvements in building performance. This abstract explores the UK's approach, the role of ATTMA's data, and the lessons that can be applied internationally to enhance building energy efficiency and compliance.

Since the early 2000s, the UK government has mandated blower door testing for new buildings to ensure they meet specific air tightness standards. This move was driven by the recognition that air leakage significantly impacts energy consumption and occupant comfort...

Scan QR code for complete description, learning objectives and presenter bios.-

03:45 PM - 04:45 PM Centennial A-B

Saddle Up! Integrating Control Layers at Parapet to Rise Walls Conditions



Michael Nagle, NCARB CANNONDESIGN BUFFALO, NY

Jake Morrison, Associate AIA, ANFA CANNONDESIGN PITTSBURGH, PA



Water and air leakage, deterioration, and biological growth have occurred at and beneath parapet terminations against adjacent rise wall conditions that lack the proper integration of the air and moisture control layers. The problem is often due to the lack of one or more of the following: proper detailing, construction sequencing, trade coordination, and installation. Further contributing to the problem is the general lack of awareness and limited amount of industry recognized standards for design professionals and contractors to follow to develop designs that properly integrate the air and moisture control layers in a way that is constructable and provides durable designs.

While most designs incorporate two-dimensional details at parapet and roof-to-wall conditions, multi-step, three-dimensional details are also necessary to convey the design intent at complex interface conditions. Beyond design, specification, and installation, it is important to include saddling flashing conditions in construction sequencing and trade coordination, and construction mock-ups...

Stay connected to

Why the profession trusts *Building Enclosure:*

- Expert-driven advice and insight that helps professionals execute projects
- Access to valuable information which allows businesses to keep their finger on the pulse of an always-evolving industry, and stay ahead of their competitors

CONTINUING EDUCATION CENTER

CE Center Library

Seamless: The What Where &

Pitfalls and Challenges of NEPA 285

- The latest information on new technologies and products
- Free Continuing Education courses that allow professionals to earn AIA/HSW, AIA/LU, ICC, and IIBEC credits.

Building Enclosure covers information related to:

- Low & Pitched Roofs
- Metal Roofing Materials
- Waterproofing
- Sustainability

- Insulation
- Exterior Claddings
- Wall Systems
- Building Envelope





The Critical Aspect of Air and V

SUBSCRIBE TO BUILDING ENCLOSURE FOR FREE!

Foundational Track | Tuesday, May 6TH

08:45 AM - 09:45 AM Centennial D

Building Science Principles in Actions: The Dews and the Don'ts



Caroline Klatman, P.E. Alex Kosis, P.E. SIMPSON, GUMPERTZ & HEGER DENVER, CO



Building science is the study of how heat, air, and moisture interact with primary building systems, including the mechanical systems and building enclosure. The interface between the building enclosure. interior space, and exterior climate can have significant impacts on building performance, durability, and occupant experience, and it is critical to consider these factors during design to avoid repeating mistakes from the past. Practical applications of building science principles often manifest in a complex manner, making it difficult to predict how and when certain design choices apply. While the individual scientific principles are seemingly straightforward, their interdependency in practice often depends on a multitude of factors across various design disciplines, meaning that building science solutions are not one-size-fits-all. Informed by both new design practice and failure investigation, this presentation will touch on the fundamentals of applying building science concepts to building enclosure design. The presentation will also explore, through a series of case studies and common industry practices, everyday building science questions and solutions as well as the situationallydependent factors that dictate their successful implementation.

Scan QR code for complete description, learning objectives and presenter bios.—

10:00 AM - 11:00 AM Centennial D

Air Barrier Fundamentals – The Why and What of Building Airtightness



Ryan Dalgleish, CSI CHIEF OPERATIONS OFFICER, AIR BARRIER ASSOCIATION OF AMERICA WALPOLE, MA



This foundational program will dive into why we are concerned about building airtightness and how air barriers impact all other components within the wall assembly. Once you have a good understanding of the "why", you appreciate how important these materials are and how the proper installation can have a huge impact on its performance and the ultimate success of any building. It's not just about air, it's about water too! We sometimes forget that an air barrier usually, if not all the time, does more than one thing.

Although boring to read, it is important to know building code requirements, along with what constitutes an air barrier material or system. Did you know that Peanut Butter can be an air barrier! Well, maybe it isn't, but it could be.... Are you intrigued?

Foundational Track | Tuesday, May 6TH

11:15 AM - 12:15 PM Centennial D

Moisture Defects in Buildings - A Sick Building Epidemic



Cheryl Ciecko, Licensed Architect, LEED AP

DWELL WELL INSTITUTE CHEYENNE, WY



Poor air quality caused by water damage and mold is contributing to increasing health burdens on occupants of buildings of every type, construction and age..including new construction. Understanding and applying building science fundamentals along with considerations uniquely related to region, site, structure type, materials and construction coordination is the key to successful building solutions that will be durable and supportive of occupant wellness over time. Bulk water, condensation, pressure differentials, capillary action, construction processes and even occupant activities contribute moisture to buildings which must be managed properly in today's increasingly complex structures. Despite building code requirements, common building defects continue to be overlooked by all involved in the quest for sustainability and at the expense of durability and wellness.

Incorporating decades of research and professional education related to building science along with a personal health journey related to environmental toxin exposure, this program raises awareness of the key role our buildings play in health and wellness. Professionals and non-professionals alike will gain knowledge and insights to discover, correct and avoid building defects, errors and omissions that often lead to water damage...

Scan QR code for complete description, learning objectives and presenter bios.

01:15 PM - 02:15 PM Centennial D

Basic Critical AVB Detailing



Corey Zussman, AIA, NCARB, ALA, RBEC, RRC, REWC, RWC, RRO, CDT, CQM, CxA+BE, BECxP, CABS, LEED® AP BD+C Level II Thermographer

AECOM HUNT CHICAGO, IL



The water, air, vapor, and insulation layers are needed in everyone's vocabulary, along with the importance of a system to facilitate a high-performance building. This presentation will identify the basic substrate conditions and critical transitions in any building. It will give you the tools to understand better the materials and sequencing needed to complete the installation to prevent constructability issues and potential rework in the field through construction photos of actual conditions and explanations of each condition.



Foundational Track | Tuesday, May 6TH

02:30 PM - 03:30 PM Centennial D

Air Barrier Installation and Quality Control Fundamentals



Melissa Payne, BECxP, CxA+BE, CDT

OWNER, MIDWEST ENCLOSURE CONSULTING, LLC NIXA. MO



Join us for an informative presentation that emphasizes the importance of proper air barrier application in enhancing building performance. Properly installed air barriers are critical in preventing air leakage, which can lead to energy inefficiencies, moisture issues, and compromised indoor air quality.

We will delve into best practices for air barrier application, highlighting the techniques that ensure continuity and effectiveness. Attendees will learn about common challenges faced during installation and the vital role of quality control in maintaining the integrity of the air barrier system.

Through real-world project photo's, we'll illustrate key application requirements for a variety of air barrier materials and exactly what to look for when performing quality control and site-testing.

Scan QR code for complete description, learning objectives and presenter bios.

03:45 PM - 04:45 PM Centennial D

Building Enclosure Commissioning (BECx): Fundamentals, Standards, and Essential Practices



Alessandra Valerio, PMP, BECxP, CxA+BE

Building Enclosure Conference | Denver | 2025

MARKHAM, ON CANADA STANTEC



This session provides a summary of Building Enclosure Commissioning (BECx), focusing on its role in delivering the building owner's vision by achieving a high-performing, durable building envelope. It explores the structured BECx process, outlining how BECx providers, contractors, architects, and owners collaborate to meet performance goals throughout each project phase. Emphasizing the critical role of air barriers, the session highlights their functions and illustrates how BECx supports air barriers in performing as intended. Essential documentation—such as design reviews, field testing, deficiency tracking, and final acceptance reports—will be

outlined to establish efficient communication and issue resolution. Key industry standards, including ASTM and ASHRAE Guideline 0, will be introduced as benchmarks for BECx performance.

Standard testing methods, including air leakage and water penetration, will be examined with a focus on early identification of air barrier deficiencies to safeguard envelope integrity. Additionally, a brief comparison between BECx and mechanical commissioning will clarify their distinct scopes, showcasing BECx's value in achieving building durability, sustainability, and quality aligned with the owner's vision.

BUILDING ENCLOSURE CONFERENCE 2025

May 6TH **BOARD MEMBER** MEET & GREET

All are welcome to drop by this casual get-together where you can have one on one chats with the board members and enjoy a variety of complimentary cocktails and appetizers.

PEAKS LOUNGE

06:00 PM - 09:00 PM 27th Floor @ The Hyatt Regency Denver Denver 650 15th Street, Denver CO 80202



08:30 AM - 09:30 AM Centennial E-H **KEYNOTE: Will Construction** Thrive or Dive Beyond 2025?



Kenneth D. Simonson, Chief Economist, Associated General Contractors of America WASHINGTON, VA



10:00 AM - 11:00 AM

This session will cover the current outlook for building construction and the ways in which announced and implemented federal policy shifts may affect the construction market.

Trends in construction employment, nationally and by state, and implications of immigration/deportation policies.

Trends and outlook for pay for craft workers and total construction relative to the overall private sector.

Trends in materials costs and potential impact of tariffs and ocean shipping fees on costs and supply chains.

Outlook for different building categories.

Scan QR code for complete description, learning objectives and presenter bios.-

Centennial E-H ABAA Contractors Committee

Panel Discussion: Submittal Risks and Responsibilities



Michael Repka, AIA, LEED AP HOFFMAN CONSTRUCTION, SEATTLE, WA

Paul Grahovac, *LEED AP* PROSOCO / LAWRENCE, KS

Matt Giambrone, CABS OCP CONTRACTORS, INC. CLEVELAND, OH

Corey Zussman, AIA, NCARB, ALA, RBEC, RRC, REWC, RWC, RRO, CDT, CQM, CxA+BE, BECxP, CABS, LEED® AP BD+C Level II Thermoarapher

AECOM HUNT / CHICAGO, IL



This interactive panel discussion will address shop drawing submittals and their role in construction. The speaker panel will have representative from legal, architectural, installer, and general contractor backgrounds who will discuss responsibilities of each party, and what risks each party may be talking on, knowingly or unknowingly. The panel will also discuss best practices for shop drawing creation, submission, and implementation in the field. Audience Q&A and participation is encouraged.

01:15 PM - 02:15 PM Centennial F-H

Unlocking the Advantages of OAP



Benjamin A. Meyer, AIA, LEED AP SIPLAST / DALLAS, TX Andrea Wagner Watts, LEED, Green Associate GAF / ARLINGTON, VA

Nicholas K. Alexander US ARMY CORPS OF ENGINEERS -OMAHA DISTRICT / USAF ACADEMY. CO

Caitlin Clark, MBA, NC General Contractor's License, ABAA Quality Assurance Administrator BARCON VENTURES LLC / MERRITT. NC



The ABAA Quality Assurance Program (QAP) is set up to help owners, specifiers and contractors ensure that their project will have a quality installed air barrier assembly. But does it work? Does it help make for a more successful project? Join us for a panel discussion to hear from an owner, specifier, ABAA Certified Installer and manufacturer on how they have leveraged the ABAA QAP to improve buildings, increase their business and reduce their overall risk. We will discuss the key pieces of the program as it relates to each member of the project team. You will hear how the program can be leveraged to achieve other parts of the project goals, such as being a portion of the building enclosure commissioning process. Finally, the panelists will provide key actions that can be taken to improve the quality of the air barrier installation on your next project.

Scan QR code for complete description, learning objectives and presenter bios.-

02:45 PM - 03:45 PM Centennial E-H

Preserving an Icon while Re-envisioning the Enclosure of the United State Air Force Academy Chapel



Bryan Rouse, AIA member, BEC-Chicago Chair, Licensed architect in IL, NE, TX, FL, WI, VI.

Emily Ryba, *CPHC*, *Associate III* ARCHITECTURAL CONSULTANT WISS, JANNEY, ELSTNER CHICAGO, IL



How does one address an iconic building's systemic water infiltration issues while preserving its unique character?

The multi-denominational United States Air Force Academy Cadet Chapel, designed by Walter Netsch of Skidmore Owings and Merrill and completed in 1963, exemplifies modernist architecture with its minimalist style and use of contemporary materials. The Chapel received the AIA's National Twenty-five Year Award in the 1990s for its architectural significance, is a National Historic Landmark as part of the Academy's Cadet Area, and holds the distinction of being the most visited man-made structure in Colorado.

The design of the Chapel, both inside and out, draws inspiration from European cathedrals, the surrounding mountainous landscape, and the industrial exterior of modern aircraft used by the Air Force. With its lack of right angles and orthogonal planes, the building enclosure tested the limits of contemporary material understanding during its era. Despite its brilliance, Netsch's creation has experienced persistent water leakage to the interior since its construction.

The exterior features a patchwork of aluminum extrusions and glass that serves as the single barrier against water intrusion...



04:00 PM - 05:00 PM Centennial E-H

Lessons learned – Trades that need to include an AVB discussion in their specification and preinstallation meetings



Corey Zussman, AIA, NCARB, ALA, RBEC, RRC, REWC, RWC, RRO, CDT, CQM, CxA+BE, BECxP, CABS, LEED® AP BD+C Level II Thermographer AECOM HUNT / CHICAGO, IL



When designing a building envelope wall system, specifying, detailing, and having a pre-installation discussion about the backup substrate and facade elements, considering the water, air, vapor, and insulation systems detailing, is critical. This involves careful coordination with all façade trade elements, consideration of construction and installation tolerances, addressing the installation requirements for the substrate wall, water and air resistive barriers, insulation, and facade support system, and learning lessons from each installation. Each component must be thoroughly understood and specified within their respective specification sections to ensure comprehensive detailing. By understanding the necessary connections, material compatibility, tested systems, and limitations of construction materials, you can develop pre-installation conversation points within each building envelope and substrate meetings to proactively develop an advanced conversation about detailing, grasping the construction requirements for each component and incorporating lessons learned will enhance future detailing and specifications will significantly improve the chances of project success.

Scan QR code for complete description, learning objectives and presenter bios.

VISIT THE Contractor's Corner FOR A CHANCE TO WIN AN IPAD AT BOOTH 35 IN FOYER

Find the Answer & Scan the QR Code To Be Entered Into the Draw

What document is provided by the ABAA auditor once an audit is completed onsite? Science. Applied to Life.

Stick it to the elements.

3M[®] Air and Vapor Barrier Solutions

Meet your toughest challenges head on:



Environmental Conditions

UV-resistant materials that can be applied in a wide range of temperatures.



Project Complexity

Easily installed products compatible with a range of construction materials.

Let's Build Smarter.



SEAL THE ENVELOPE™ WITH POLYGLASS®

Engineered for Superior Air Barrier Performance

Safeguard your building from the elements with Polyglass' integrated SEAL THE ENVELOPE[™] systems. Our high-performance air and vapor barriers, self-adhered membranes, and liquid-applied systems work together seamlessly, creating a protective building envelope. Backed by a single warranty, Polyglass provides the products, expertise, and support for superior building performance.

POLYGLASS

Vertiwrop NPS

VertiWrap[®] Air & Vapor Benefits:





Air & Moisture Control

re NFPA 285 Compliant Jobsite Versatility

Simplify & Save with Polyglass:

- 🗸 Single point of contact
- ✓ Assured compatibility
- ✓ Tailored system solutions
- Comprehensive warranty

We don't just waterproof – we SEAL THE ENVELOPE™

Scan to explore our AVB solutions





polyglass.us